



## AE-Series Actuator



### Features

#### Five Output Torques, One Housing

1. 200, 400, 600, 800 and 1,000 inch-pounds
2. Long Service Life
3. Newly developed anodized die cast aluminum housing
4. Fiberglass reinforced nylon cover with UV stabilizers resists corrosion
5. Nitrile gasket and seals cover all penetration points in housing and cover
6. Precision cut and heat treated alloy spur gears
7. Permanently lubricated enclosed gear train

#### Easy To Use

1. Two separate 1/2" NPT conduit entrances for easier wiring and signal separation
2. 12-position pre-wired terminal strip includes standard connections for remote open/closed position indicators; lots of room for wiring options
3. Unrestricted mounting orientation
4. Built-in thermal overload protection in all AC motor actuators
5. Limit switches have an 11 amp rating at 115 VAC
6. High visibility valve position indicator standard on all models

#### Many Standard Features

1. Stainless steel push-and-turn manual override shaft, position indicator shaft and female output
2. ISO 5211 F07 drive output reduces inventory of mounting kits
3. 115 AC, 220 AC and 24 AC ÷ all AC models feature a 25% duty cycle below 100°F
4. 12 and 24 DC ÷ all DC voltage models provide 100% duty cycle

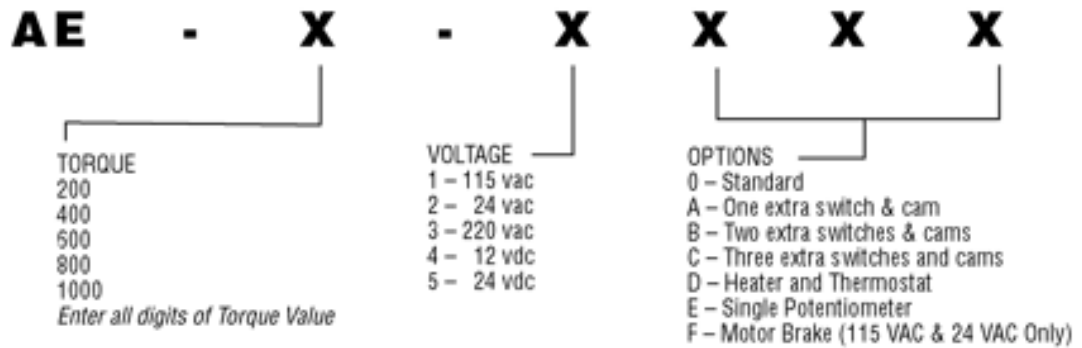
#### Broad Temperature Range

1. Operates from -40°F (when equipped with heater and thermostat) to 150°F

### Available Options

1. Actuators can be ordered with one, two or three additional limit switches
2. For low temperatures: actuators can be equipped with a thermostatically controlled heater element
3. Motor brake is necessary when mounting actuator to a butterfly valve

## AE Series Numbering System



Note: AE will always be the first two characters of the part number, all digits from torque value must be entered into part number (i.e. 400, 1000 etc.) Only use one digit for voltage depiction (i.e. 1-5). For the options listing you may use more than one character, up to three, (i.e. 0, AD or BD etc.)

**Example:** **AE-400-3BF** : 400 lb. in.; 220 VAC; 2 extra switches and cam, motor brake  
**AE-1000-1D** : 1000 lb. in.; 115 VAC; Heater and thermostat

## General Specifications

Actuator Model	Breakaway Torque Output (in.-lbs.)	Cycle Time 90° Travel (50% Load)	Duty Cycle	Amperage Draw (max.) Starting or locked rotor current voltage			
				115 VAC	230 VAC	12 VDC	24 VDC
AE200	200 in-lbs	5.0 sec.	25%	.74 amp	.44 amp	2.00 amp	1.38 amp
AE400	400 in-lbs	10.0 sec.	25%	.74 amp	.44 amp	2.00 amp	1.38 amp
AE600	600 in-lbs	15.0 sec.	25%	.74 amp	.44 amp	2.00 amp	1.38 amp
AE800	800 in-lbs	20.0 sec.	25%	.74 amp	.44 amp	2.00 amp	1.38 amp
AE1000	1000 in-lbs	25.0 sec	25%	.74 amp	.44 amp	2.00 amp	1.38 amp

Note: 90° Travel = Travel From Closed position to Open position or vice versa

## Performance

<b>Motor</b>	<b>AC models:</b> 120 VAC or 230 VAC, Reversible 3 wire, capacitor run. Self-resetting (thermal) overload protection, Class B insulation, sub-fractional horsepower. <b>DC models:</b> 12 VDC or 24 VDC, Reversible 2 wire, POS & NEG. No thermal overload (external circuit breaker or fuse suggested for protection.)
<b>Lubrication</b>	Permanently lubricated gear train and bearings
<b>Duty Cycle</b>	The AE-Series actuators are designed to operate at <b>25% duty cycle</b> at temperatures below 100°F.
<b>Temperature Operating Range</b>	32°F to 150°F standard -40°F to 150°F with optional heater & thermostat
<b>Thermal</b>	Self-resetting (AC Motors Only)

Protection	
Conduit Connections	(2) 1/2" NPT female
Direction Of Travel	Clockwise to Close, Counterclockwise to Open (Position indicator shaft only, manual override shaft rotates opposite)

## Dimensional Diagram

